

NWS Forecast Discussion – 4 July 2015 Fireworks – abbreviated – see end of document for relevant period, mostly in the highlighted text

FXUS65 KVEF 040756
AFDVEF

AREA FORECAST DISCUSSION

NATIONAL WEATHER SERVICE LAS VEGAS NV
1255 AM PDT **SAT** JUL 4 2015

.SYNOPSIS...ISOLATED TO SCATTERED THUNDERSTORMS WILL BE POSSIBLE...PRIMARILY OVER THE HIGHER TERRAIN OF INYO COUNTY...SOUTHERN NEVADA AND NORTHWEST ARIZONA THIS WEEKEND. A DRYING TREND IS THEN EXPECTED THROUGH MUCH OF NEXT WEEK ALONG WITH TEMPERATURES RUNNING A FEW DEGREES BELOW NORMAL.
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.SHORT TERM...TODAY THROUGH MONDAY NIGHT.

LIGHT RAIN SHOWERS CONTINUE TO OCCUR OVER THE FAR SOUTHERN HALF OF THE FORECAST AREA AND ARE EXPECTED TO CONTINUE THROUGH THE EARLY MORNING HOURS. THESE SHOWERS ARE NOT REALLY PRODUCING MUCH RAINFALL AND AS THEY CONTINUE TO MOVE NORTHWEST THROUGH CLARK AND SAN BERNARDINO COUNTIES THEY ARE RUNNING INTO DRIER AND MORE **STABLE** AIR AND WEAKENING. THERE WILL STILL BE ENOUGH **MOISTURE** AND **INSTABILITY** IN PLACE TO GENERATE MORE ISOLATED THUNDERSTORMS THIS AFTERNOON OVER MAINLY THE HIGHER TERRAIN OF MOHAVE AND LINCOLN COUNTIES ALONG WITH THE SIERRA. WE DO HAVE FAIRLY WIDESPREAD CLOUD COVER OVER MUCH OF THE **CWA** THIS MORNING WHICH COULD HAMPER CONVECTIVE DEVELOPMENT THIS AFTERNOON...BUT THE MODELS DO INDICATE SOME BREAKS IN THE CLOUDS. THESE CLOUDS COULD ALSO HAVE AN AFFECT ON AFTERNOON HIGH TEMPERATURES ACROSS THE REGION. SOME **MOISTURE** AND WEAK **INSTABILITY** WILL REMAIN IN PLACE SUNDAY AND MONDAY AFTERNOON FOR A CONTINUED CHANCE OF ISOLATED AFTERNOON AND EVENING THUNDERSTORMS. WITH LOW PRESSURE MOVING INLAND DRIER AIR SHOULD KEEP THE STORMS CONFINED TO MAINLY THE EASTERN HALF OF THE AREA. LAS VEGAS NEEDS ONE MORE DAY OF 105+ TEMPERATURES TO BREAK THE ALL TIME CONSECUTIVE DAYS RECORD OF 21. THIS WILL BE CLOSE. CURRENT FORECAST FOR TODAY IS 105 AND IF WE SEE SOME SUN THIS AFTERNOON WE SHOULD BREAK THAT RECORD. HOWEVER IF THE CLOUDS ARE TOO THICK WE MAY FALL JUST SHORT. BEYOND TODAY THE TEMPERATURES LOOK TO COOL A FEW DEGREES AND BE SLIGHTLY BELOW NORMAL BY MONDAY.

FXUS65 KVEF 041657
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AREA FORECAST DISCUSSION

NATIONAL WEATHER SERVICE LAS VEGAS NV
957 AM PDT **SAT** JUL 4 2015

.UPDATE...A **SHORTWAVE** IS MOVING NORTHWARD THROUGH SOUTHERN NEVADA AND SOUTHWEST UTAH THIS MORNING...PROVIDING A SIGNIFICANT CLOUD

SHIELD AND LIGHT PRECIP. MOST LOCATIONS HAVE RECEIVED A **TRACE** OF PRECIP...BUT A COUPLE LOCATIONS IN THE SPRING MOUNTAINS HAVE RECEIVED A TENTH OF AN INCH OF RAIN. I HAVE INCREASED CLOUDS AND **POPS** ACROSS SOUTHERN NEVADA AND NORTHWEST ARIZONA TODAY. AFTER THIS INITIAL BATCH OF CLOUDS AND SHOWERS MOVES THROUGH...THE FOCUS WILL SHIFT TO MOHAVE COUNTY...WHERE THE BEST CLEARING...**INSTABILITY** AND **MOISTURE** IS LOCATED. I LEFT TEMPERATURES ALONE AS MANY LOCATIONS WILL SEE AT LEAST PARTIAL CLEARING LATER IN THE AFTERNOON.

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FXUS65 KVEF 042128

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AREA FORECAST DISCUSSION

NATIONAL WEATHER SERVICE LAS VEGAS NV

228 PM PDT **SAT** JUL 4 2015

.SHORT TERM...TONIGHT THROUGH TUESDAY NIGHT.

A **SHORTWAVE** CONTINUES TO PUSH TO THE NORTH AND INTO NORTHERN NEVADA. THIS SYSTEM HAS BEEN RESPONSIBLE FOR ALL OF THE CLOUDS AND MAINLY LIGHT PRECIP ACROSS THE AREA. THIS HAS STABILIZED THE AIR MASS...LIMITED DAYTIME HEATING IN MOST PLACES AND REDUCED **THUNDERSTORM** ACTIVITY. THE SOUTHERN AND EASTERN PORTIONS OF MOHAVE COUNTY HAVE DEEPER **MOISTURE** AND MODEST **INSTABILITY** AND THE POTENTIAL FOR THUNDERSTORMS WILL CONTINUE THERE FOR THE REMAINDER OF THE AFTERNOON AND INTO THE EARLY EVENING HOURS. DUE TO THE CLOUD COVER...THE STREAK OF 105 DEGREES IN LAS VEGAS IS LIKELY OVER AS THE HIGH TEMPERATURE HAS ONLY REACH 100 AS OF 2 PM. WEAK **SHORTWAVE** RIDGING WILL BE IN PLACE ON SUNDAY AND MONDAY AND WITH **MOISTURE** REMAINING UNDERNEATH THE **RIDGE**...ISOLATED TO SCATTERED THUNDERSTORMS WILL CONTINUE FROM THE EASTERN SIERRA AND ACROSS THE HIGHER TERRAIN OF SOUTHERN NEVADA...AS WELL AS MOHAVE COUNTY. ADDITIONALLY...THE MODELS ARE INDICATING A MODEST PUSH OF **MOISTURE** INTO THE SOUTHERN AND EASTERN PORTIONS OF MOHAVE COUNTY...WHICH MAY ENHANCE THE **THUNDERSTORM** POTENTIAL THERE. ON MONDAY...THE NORTHERN FRINGES OF THE AREA WILL BE UNDER AN AREA OF UPPER DIFFLUENCE WHICH MAY AID IN THE DEVELOPMENT OF THUNDERSTORMS ACROSS NORTHERN INYO...ESMERALDA...CENTRAL NYE COUNTIES.

THE UPPER LOW OFF OF THE CALIFORNIA COAST WILL BEGIN TO MOVE TOWARD THE COAST ON MONDAY NIGHT...ENHANCING THE SOUTHWEST **FLOW** AND DRYING ACROSS THE AREA. SOME LINGERING AFTERNOON **CONVECTION** IS POSSIBLE ON TUESDAY.

FXUS65 KVEF 050256

AFDVEF

AREA FORECAST DISCUSSION

NATIONAL WEATHER SERVICE LAS VEGAS NV

756 PM PDT **SAT** JUL 4 2015

.UPDATE...**CONVECTION** HAS BEEN MOST EAGER TO GO IN INYO COUNTY THIS

EVENING, WHICH GIVEN THE DIFFLUENCE AHEAD OF THE MID/**UPPER LEVEL** LOW OFFSHORE MAKES SENSE AS THIS IS HELPING TO LIFT THE AIR PARCELS IN THE NORTHWEST **CWFA**. THE ONLY CHANGE THIS EVENING WAS TO INCREASE **POPS** OVER NORTHERN SAN BERNARDINO COUNTY WHERE **CONVECTION** HAS ALSO MANAGED TO FIRE. THE ENVIRONMENT HERE IS NOT AS FAVORABLE AND GIVEN THE LACK OF ANY LARGER SCALE FEATURES THIS AREA SHOULD SEE ACTIVITY END QUICKLY AFTER SUNSET. THE REST OF THE FORECAST LOOKS IN GOOD SHAPE AT THIS TIME.

LAS VEGAS ONLY HIT 102 TODAY WHICH SNAPPED THE STRETCH OF CONSECUTIVE DAYS AT OR ABOVE 105 DEGREES. AN UPDATED RER AND GRAPHICS HAVE BEEN ISSUED WITH MORE INFORMATION.

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FXUS65 KVEF 050453

AFDVEF

AREA FORECAST DISCUSSION

NATIONAL WEATHER SERVICE LAS VEGAS NV

952 PM PDT **SAT JUL 4 2015**

.UPDATE...SHOWERS CONTINUE TO KEEP GOING IN AND AROUND DEATH VALLEY NATIONAL PARK THIS EVENING. ALTHOUGH MOST OF THE ACTIVITY IS FAIRLY WEAK LOOKING ON RADAR, IT IS HARD TO STILL DISCOUNT A **THUNDERSTORM** OUT THERE IN THIS AREA. HOWEVER, GIVEN TRENDS **POPS** WERE INCREASED AND THE COVERAGE OF SHOWERS WAS EXPANDED IN THIS AREA FOR THIS EVENING AS WELL AS INTO ADJACENT PORTIONS OF NYE COUNTY WHERE ACTIVITY MAY DRIFT LATER ON BASED ON THE SOUTHWEST/WEST STEERING **FLOW**. THE HRRR SUGGESTS MOST OF THE ACTIVITY HERE SHOULD WANE BY 08Z SUNDAY OR SO. THE REST OF THE FORECAST LOOKS IN GOOD SHAPE.

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.AVIATION...FOR MCCARRAN...WINDS HAVE STRUGGLED TO SHIFT FROM THE EAST-SOUTHEAST THIS EVENING. EXPECT THERE WILL BE A SHIFT BUT IT MAY NOT BE UNTIL CLOSER TO 06Z-07Z SUNDAY AS SPEEDS REMAIN WEAK AND SUPPORT ALOFT IS WEAK AT THIS TIME OF NIGHT TO ALLOW ANY HIGHER WINDS TO MIX DOWN. WINDS SHOULD FAVOR TYPICAL **DIURNAL** DIRECTIONS AGAIN ON SUNDAY WITH GUSTS TO AROUND 20 **KTS** IN THE LATE AFTERNOON AND EVENING EXPECTED. FEW-SCT CLOUDS **AOA** 10K-12K FEET. **LOCAL AREAS** OF FU ALOFT FROM FIREWORK **SMOKE** IS POSSIBLE.